1008937.070802

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification⁷: **G01R 31/28**

(21) International Application Number: PCT/US00/26189

(22) International Filing Date:
23 September 2000 (23.09.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/156,121   25 September 1999 (25.09.1999)   US

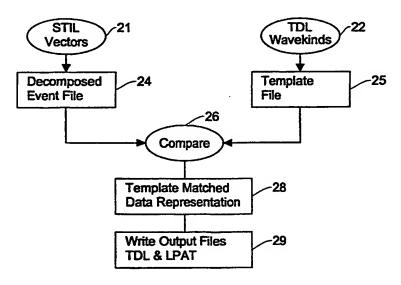(71) Applicants (for all designated States except US): **AD-VANTEST CORPORATION** [JP/JP]; 32-1, Asahi-cho 1-chome, Nerima-ku, Tokyo 179-0071 (JP). **ADVAN-TEST AMERICA R & D CENTER, INC.** [US/US]; 3201 Scott Boulevard, Santa Clara, CA 95054 (US).

(72) Inventor; and
(75) Inventor/Applicant (for US only): **PARNAS, Bruce, R.** [US/US]; - (US). —

(74) Agent: **MURAMATSU, Yasuo**; Muramatsu & Associates, Suite 225, 7700 Irvine Center Drive, Irvine, CA 92618 (US).

(81) **Designated States** (national): DE, JP, KR, US.

Published:
— With international search report.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: TEST LANGUAGE CONVERSION METHOD

(57) Abstract: A method of converting test vectors (21) in an original test-cycle based language into a target-cycle based test language (22). The method includes the steps of forming a set of templates (25) depicting waveforms defined in the target test language (22); decomposing a waveform (24) in the original test language into a set of constituent events where each event includes data showing at least a starting value and a number of subsequent edges of the waveform; comparing the template and the set of events (26); storing the waveform data in the target test language when a match is detected (28) and retrieving corresponding parameters of the waveform in the original test language (29); and repeating the above steps for all of the test vectors in the original test language, thereby forming a test vector file of the target test language.

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